***CLASS COPY - DO NOT WRITE ON***

CW 34: Reflections Day 1

**Honors Geometry**

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| Find the image of each object with the given transformation. Graph the pre-image and image. | |
| 1. Reflection across: a) y-axis b) x-axis c d) | 1. Reflection across: a) y-axis  b) x-axis c)  d) |
| 1. Reflection across a) y-axis b) x-axis c)  d   Prove that is congruent to by showing that the lengths of the each side of the triangle are the same. | 1. Reflection across a) y-axis b) x-axis c)  d)   Prove that is congruent to by showing that the lengths of the each side of the triangle are the same. |

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| Graph the image of the figure using the transformation given and label the coordinates. | | |
| 1. Find the image of the line segment , such that after it is reflected across: a) the y-axis b) the x-axis c)  d) | 1. Find the image of the line segment ,such that D(2,1) andC(4,4) after it is reflected across: a) the y-axis b) the x-axis c)  d) | |
| **Macintosh HD:Users:katleiahramos:Desktop:Screen Shot 2015-10-04 at 10.34.36 AM.png**7)  a) Find the equation of this line. b) Find the equation of this line if it is reflect across the y-axis. | **Macintosh HD:Users:katleiahramos:Desktop:Screen Shot 2015-10-04 at 10.38.56 AM.png**8) a) Find the equation of this line. b) Find the equation of this line if it is reflect across the x-axis. | |
| 9) Tell whether a reflection and/or transformation can move one figure onto the other. If so describe the transformations you can use. If not, explain why you cannot. | | | |
| Macintosh HD:Users:katleiahramos:Desktop:Screen Shot 2015-10-03 at 10.33.40 PM.pnga)  Macintosh HD:Users:katleiahramos:Desktop:Screen Shot 2015-10-03 at 10.34.00 PM.pngb) | | Macintosh HD:Users:katleiahramos:Desktop:Screen Shot 2015-10-03 at 10.33.54 PM.pngc)  Macintosh HD:Users:katleiahramos:Desktop:Screen Shot 2015-10-03 at 10.34.13 PM.pngd) | |
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| 11) Draw examples of triangles that can be mapped onto each other by the given transformation(s). Show the line(s) of reflection you use.  a. exactly one reflection b. exactly two reflections c. exactly three reflections |
| 10) A clothing manufacturer needs two panels cut from clothes that are reflections of each other to create a part of a dress. *Explain* why folding the fabric in half and cutting both pieces together will produce the two panels. |